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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Saito et al. International Application Nr.: PCT/JP03/12991  
Serial Number: 10/532,149 International Filing Date: 09 October 2003  
371 Filing Date: 09/14/2005 Confirmation Number: 6483  
Group Art Unit: 2875 Examiner: unknown  
Title: **LINE-ILLUMINATING DEVICE AND IMAGE-SCANNING DEVICE  
INCORPORATING LINE-ILLUMINATING DEVICE  
REQUEST FOR CORRECTED FILING RECEIPT**

Filing Receipt Corrections  
Commissioner For Patents  
Post Office Box 1450  
Alexandria, Virginia 22313-1450

Sir:

With respect to the identified patent application, applicant respectfully requests a corrected filing receipt with the following corrections

In the section entitled Title, please change "Line illuminator and image reader incorporating it" to -- Line-illuminating device and image-scanning device incorporating line-illuminating device --. This requested change is in accordance with the title shown at the top of page 1 of the specification (copy enclosed). Also, between the "Applicant(s) section and the "Power of Attorney" section, please insert the Assignment For Published Patent Application – NIPPON SHEET GLASS CO., LTD.

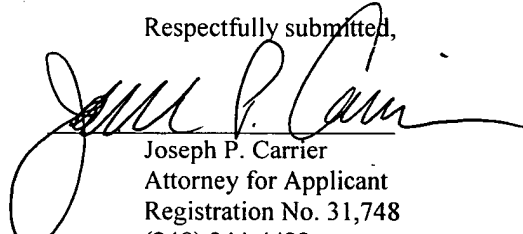
Applicant encloses a hand-amended copy of the filing receipt showing the requested corrections. Favorable consideration is respectfully requested.

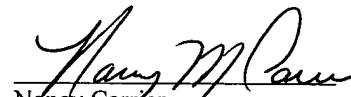
Customer Number 21828  
Carrier, Blackman, & Associates, P.C.  
24101 Novi Road, Suite 100  
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10 March 2006

I hereby certify that this correspondence is being deposited with the U. S. Postal Service as first class mail in an envelope addressed to Commissioner For Patents, Post Office Box 1450, Alexandria, Virginia 22313-1450 on 10 March 2006

Dated: 10 March 2006  
JCP/nmc  
Enclosure

Respectfully submitted,

  
Joseph P. Carrier  
Attorney for Applicant  
Registration No. 31,748  
(248) 344-4422

  
Nancy Carrier

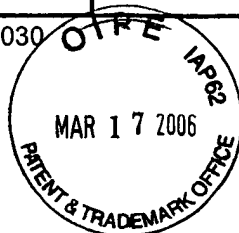


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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/532,149	09/14/2005	2875	1030	KNI-204-A	4	12	3

Carrier Blackman & Associates  
 Suite 100  
 24101 Novi Road  
 Novi, MI 48375



CONFIRMATION NO. 6483

## FILING RECEIPT



\*OC000000018142177\*

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Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Tomihisa Saito, Osaka, JAPAN;  
 Takashi Kishimoto, Osaka, JAPAN;  
 Hidemitsu Takeuchi, Osaka, JAPAN;  
 Yukihiro Kato, Osaka, JAPAN;

**Assignment For Published Patent Application** - Nippon Sheet  
 Glass Co., LTD.  
 Power of Attorney: The patent practitioners associated with Customer Number 21828.

## Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP03/12991 10/09/2003

## Foreign Applications

JAPAN 2002-306166 10/21/2002

Projected Publication Date: 06/08/2006

Non-Publication Request: No

Early Publication Request: No

## Title

Line illuminator and image reader incorporating it

Line-Illuminating Device and  
 Image-Scanning Device  
 Incorporating Line-Illuminating  
 Device

**Preliminary Class**

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## DESCRIPTION

LINE-ILLUMINATING DEVICE AND IMAGE-SCANNING DEVICE  
INCORPORATING LINE-ILLUMINATING DEVICE

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## Technical Field

1 The present invention relates to a line-illuminating device and a contact-type image-scanning device (image sensor) in which the line-illuminating device is incorporated.

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## Background Art

2 A contact-type image sensor is used as a device for scanning a document in a facsimile machine, a copying machine, an image scanner or the like. The contact-type image sensor is provided with a line-illuminating device for linearly illuminating a  
15 document surface along a main scanning field.

3 In the line-illuminating device, a bar-shaped light guide is accommodated in a casing, light from a light source (LED) is introduced into the bar-shaped light guide, and the light is allowed to reflect within the bar-shaped light guide and be emitted from a light-emitting surface along the longitudinal direction of the bar-shaped light guide  
20 toward the document surface, in which the light-emitting surface is exposed from the casing (Patent Documents 1 and 2). There have been known a type in which a light source is provided on one end of the casing, and a type in which light sources are provided on both ends of the casing.

[Patent Document 1] Japanese Patent Application Publication No. 8-163320

25 [Patent Document 2] Japanese Patent Application Publication No. 10-126581

4 Among the conventional line-illuminating devices, as for the type in which a light source is provided on one end, the light amount is insufficient, and the illumination intensity is non-uniform along the main scanning direction. Thus, a light-scattering pattern is provided. However, it is still difficult to completely solve the problem of